



United States  
Department of  
Agriculture

Soil  
Conservation  
Service

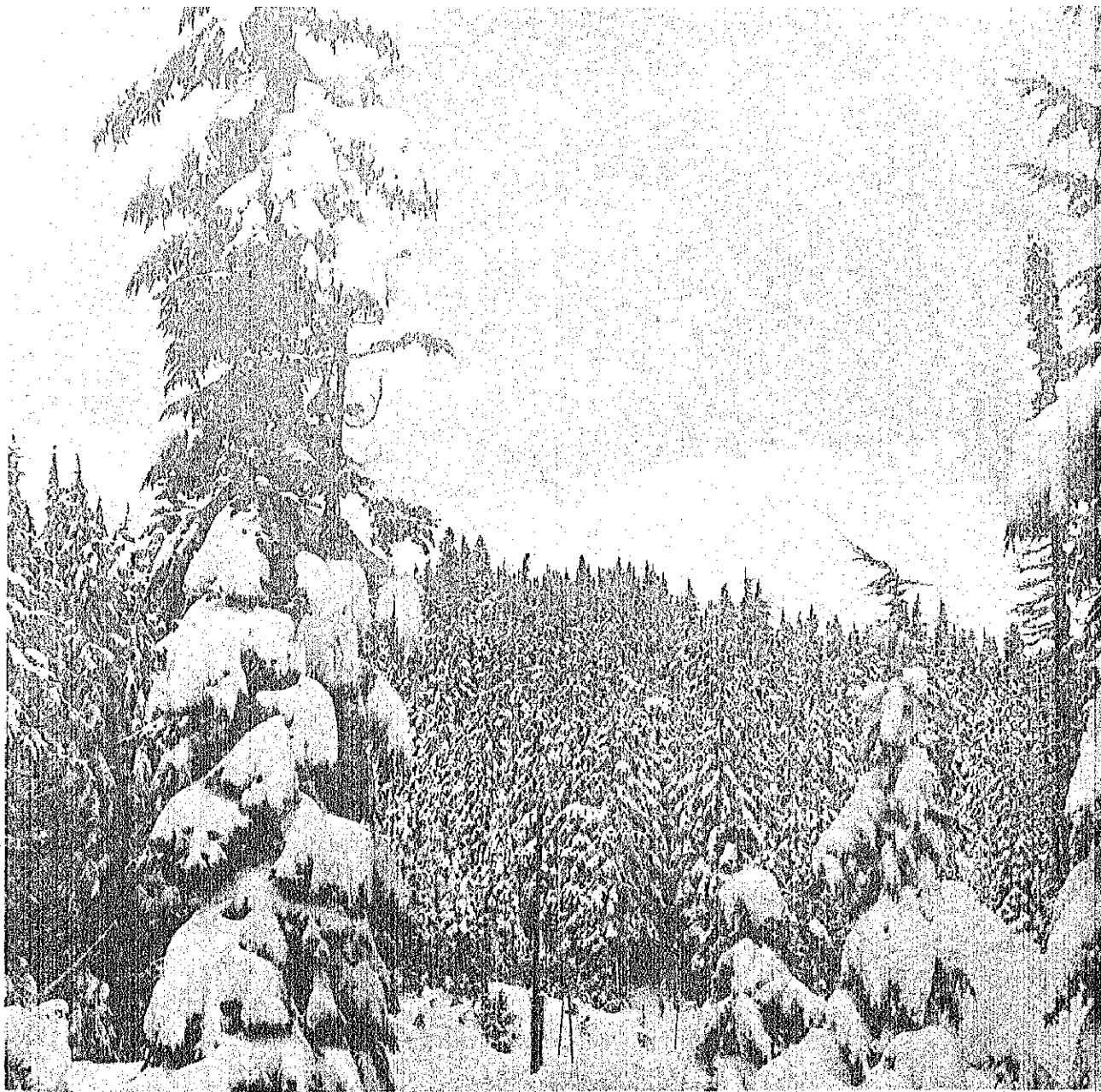
Casper,  
Wyoming



# Wyoming

# Water Supply Outlook

January 1, 1986



## Foreword

### How Forecasts Are Made

Most of the annual streamflow in the Western United States originates as snowfall. This snowfall accumulates high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are viewed in conjunction with snowpack data to prepare runoff forecasts. This report presents a comprehensive picture of water supply outlook conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data and narratives describing current conditions.

Streamflow forecasts are cooperatively generated by Soil Conservation Service and National Weather Service hydrologists. Forecasts become more accurate as more data affecting runoff becomes known. For this reason, forecasts are issued that reflect three future precipitation conditions — Below Normal, Average, and Above Normal. These forecasts are termed reasonable minimum, most probable, and reasonable maximum. Actual streamflow can be expected to fall between the lower and upper forecast values eight out of ten years.

Snowpack data are obtained by using a combination of manual and automated measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation, temperature, and other parameters are monitored on a daily basis and transmitted via radio telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

### For More Information

Copies of Monthly Water Supply Outlook Reports and other reports may be obtained from the states listed below. Because of the limited space, snow survey measurements are not published in monthly reports. An annual snow survey data summary is published by the Soil Conservation Service for each of the western states. Historical snow survey data may be obtained at those same offices.

STATE	ADDRESS
Alaska	201 East 9th Ave., Suite 300, Anchorage, AK 99501-3687
Arizona	201 East Indianola, Suite 200, Phoenix, AZ 85012
Colorado (New Mexico)	2490 West 26th Ave., Denver, CO 80211
Idaho	304 North 8th Street, Room 345, Boise, ID 83702
Montana	10 East Babcock, Room 443, Federal Building, Bozeman, MT 59715
Nevada	50 South Virginia Street, Third Floor, Reno, NV 89505
Oregon	1220 Southwest 3rd Ave., 16th Floor, Portland, OR 97204
Utah	4402 Federal Building, 125 South State Street, Salt Lake City, UT 84147
Washington	360 U.S. Court House, Spokane, WA 99201
Wyoming	Federal Building, 100 East "B" Street, Casper, WY 82602

In addition to state reports, a Water Supply Outlook for the Western United States is published by the Soil Conservation Service and National Weather Service monthly, January through May. Reports may be obtained from the Soil Conservation Service, West National Technical Center, 511 Northwest Broadway, Room 547, Portland, OR 97209.

Published by other agencies:

Water Supply Outlook Reports prepared by other agencies include: California — Snow Survey Branch, California Department of Water Resources, P.O. Box 388, Sacramento, CA 98502; British Columbia — The Ministry of Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5; Yukon Territory — Department of Indian and Northern Affairs, Northern Operations Branch, 2 Range Road, Whitehorse, Yukon Territory, Y1A 3V1; Alberta, Saskatchewan, and N.W.T. — The Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta, T3C 1A6.

# Wyoming

## Water Supply Outlook and

### Federal-State-Private Cooperative Snow Surveys

**Issued by**

Wilson Scaling  
Chief  
Soil Conservation Service  
Washington, D.C.

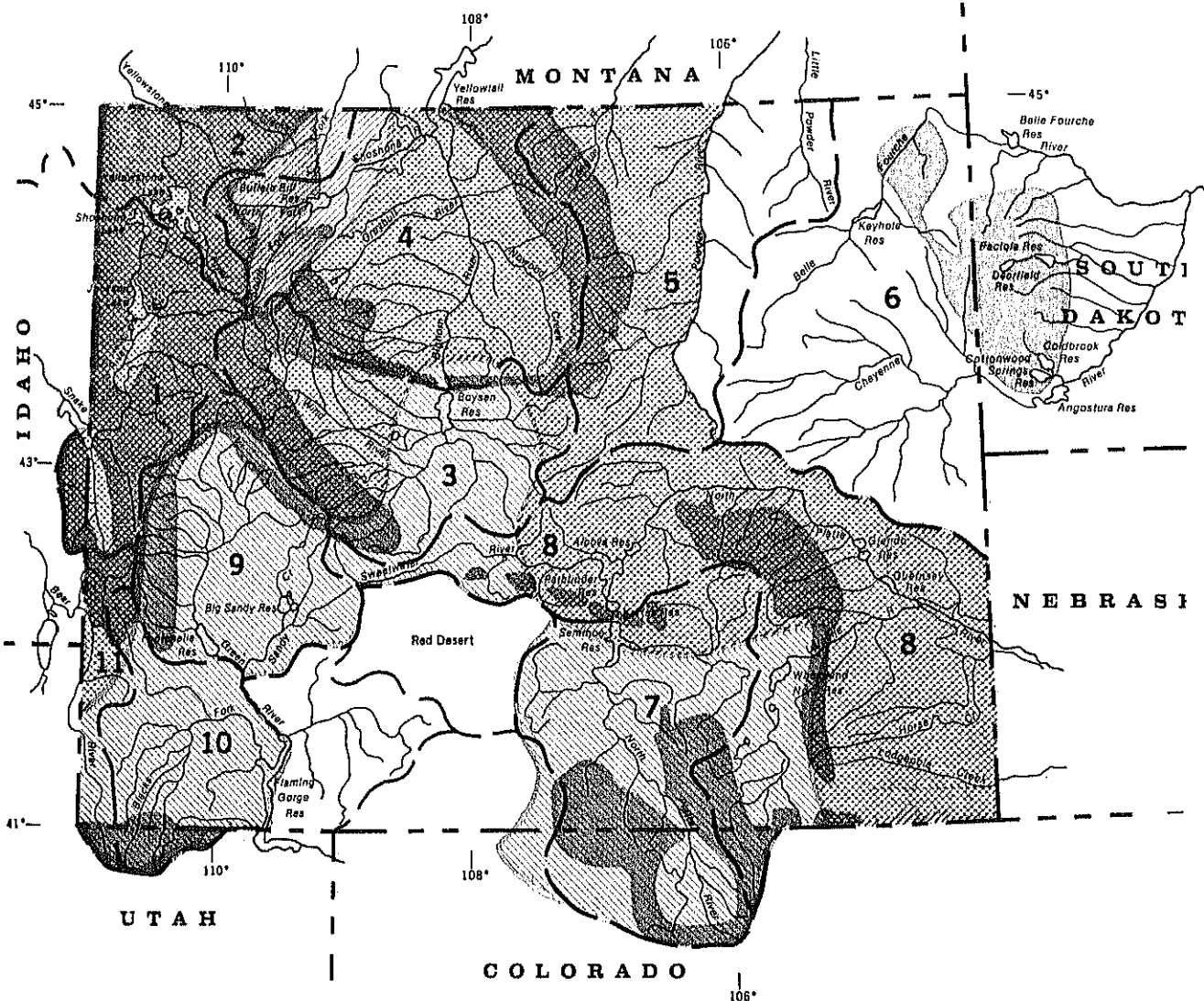
**Released by**

Frank S. Dickson  
State Conservationist  
Soil Conservation Service  
Casper, Wyoming

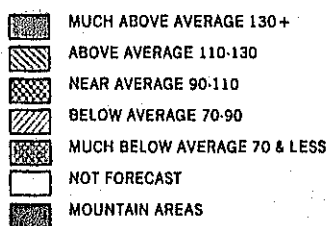
**Prepared by**

Ted Gilbert  
Acting Water Supply Specialist  
Soil Conservation Service  
Room 3124, 100 East B Street  
Casper, Wyoming 82601

Programs and assistance of the United States Department of Agriculture are available without regard to race, creed, color, sex, age, or national origin.



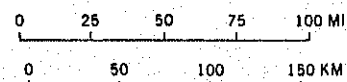
**LEGEND**  
**SPRING AND SUMMER PERIOD**  
**(PERCENT OF AVERAGE)**



**RIVER BASINS**

1. SNAKE
2. UPPER YELLOWSTONE AND MADISON
3. WIND
4. BIG HORN
5. POWDER AND TONGUE
6. BELLE FOURCHE AND CHEYENNE
7. UPPER NORTH PLATTE AND LITTLE SNAKE
8. LOWER NORTH PLATTE, SWEETWATER, AND LARAMIE
9. UPPER GREEN
10. LOWER GREEN
11. UPPER BEAR

**STREAMFLOW PROSPECTS**  
**WYOMING**



**SOURCE:** Data compiled by SCS  
 Field Personnel.

USDA-SCS-FORT WORTH, TEXAS 1985

JULY 1985 4-R

FORMERLY 7-L-2

## GENERAL OUTLOOK

### SUMMARY:

Streamflows are expected to be near or slightly above average throughout most of Wyoming this spring and summer. Early winter snowpacks range from over 60% above normal along the southern edge of the state and Green River drainage to near normal for the remainder of the state.

### SNOWPACK:

The North Platte is about 62% above normal, with some of the tributaries showing as much as 116% above normal. The Green River is 32% above normal with the upper reaches of the basin being as much as 40% above normal. Henrys Fork drainage has an early season snowpack nearly 79% above normal. The remainder of the state is near normal for snowpack buildup.

### PRECIPITATION:

December was generally a dry month throughout Wyoming. The exception to the rule was the northeast part of the state where the amount was 62% above normal. The lowest amounts of precipitation was in the Upper Green River Basin where amounts were 51% below normal. Since the beginning of the 1986 Water Year (October 1, 1985) precipitation over the state has been above normal. It ranges from a high of 75% above normal in the Upper North Platte and Little Snake River Basins to a low of 11% below normal for the Upper Bear River Basin. Early precipitation in October and November has accounted for the normal to above normal snowpack buildup in the state. This made it hard on the hunters, but good for early season skiers.

## RESERVOIRS:

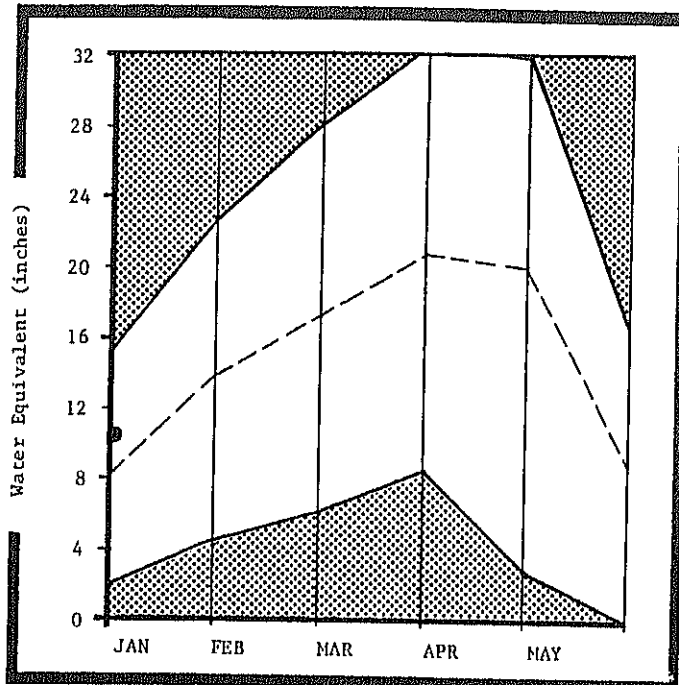
Stored water in the major reservoirs of the state is generally less than at this time last year. Both Jackson Lake and Fontenelle Reservoir are operating under restricted capacities brought on by repairs.

## STREAMFLOW:

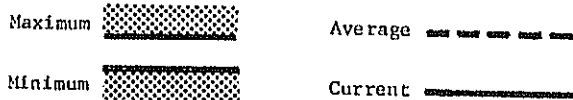
Forecasted streamflow amounts for this summer are close to normal based on the January 1st snow reports. Exceptions are noted in the Green River Basin, Upper North Platte and Laramie River Basins and the inflow to Boysen Reservoir. These exceptions are presently forecasted to be from 10% to 20% above normal. The Shoshone and Lower Clarks Fork drainages are forecasted to be about 11% below normal. These forecasts are dependent upon average snowfall accumulations for the remaining portion of the snow season. The forecasts in this bulletin are a result of coordinated activity between the Soil Conservation Service and the National Weather Service in an effort to provide the best possible service to the water user.

# SNAKE RIVER BASIN

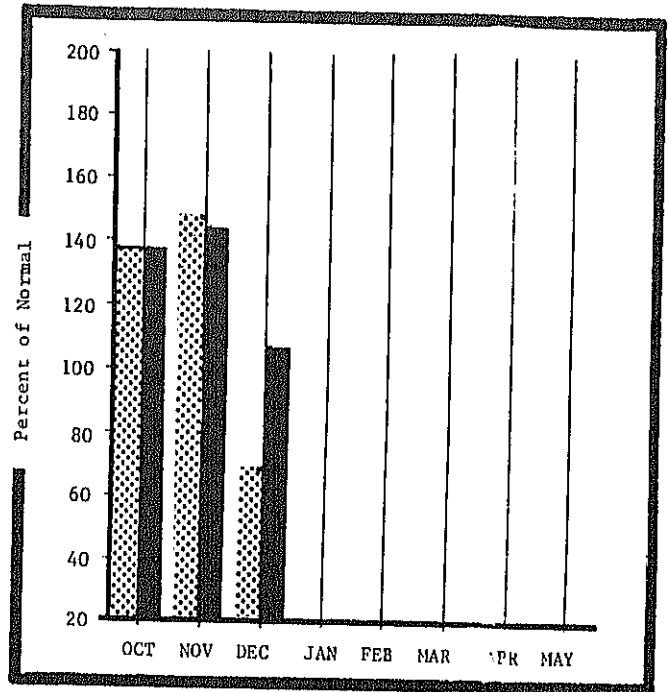
MOUNTAIN SNOWPACK\*



\*Based on selected stations



PRECIPITATION\*



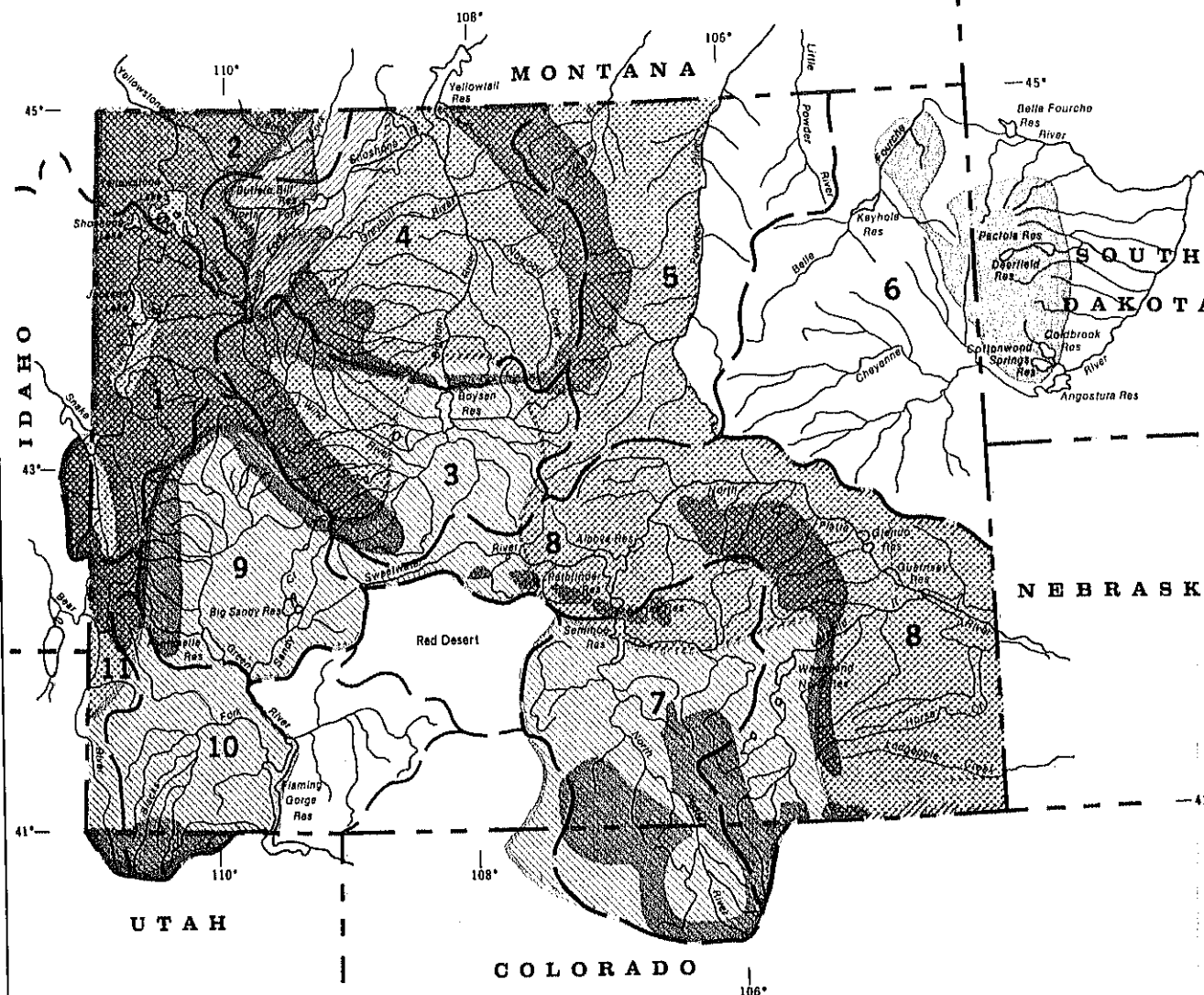
\*Based on selected stations



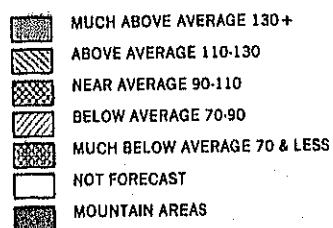
## WATER SUPPLY OUTLOOK:

Streamflows this summer are expected to be near normal based on current snow conditions in the basin. Snowpack accumulation range from a high of over 30% above normal in the Gros Ventre and Hoback River drainages to a low of 6% below normal in the Pacific Creek drainage. Current reservoir storage is below normal.

For more information contact your local Soil Conservation Service office.



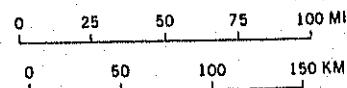
**LEGEND**  
**SPRING AND SUMMER PERIOD**  
**(PERCENT OF AVERAGE)**



**RIVER BASINS**

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**STREAMFLOW PROSPECTS**  
**WYOMING**



**SOURCE:** Data compiled by SCS  
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USDA-SCS-FORT WORTH, TEXAS 1985

JULY 1985 4-R  
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#### RESERVOIRS:

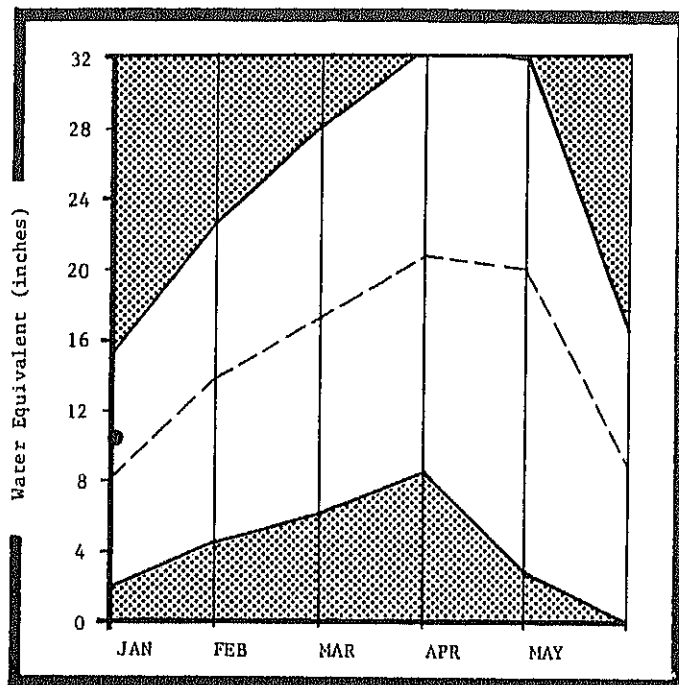
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#### STREAMFLOW:

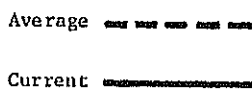
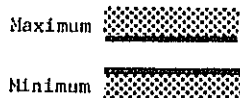
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# SNAKE RIVER BASIN

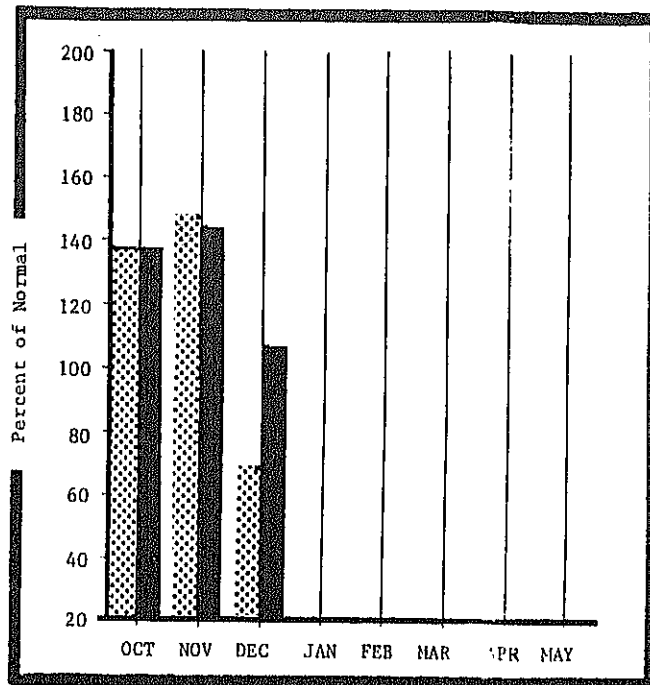
MOUNTAIN SNOWPACK\*



\*Based on selected stations



PRECIPITATION\*



\*Based on selected stations



## WATER SUPPLY OUTLOOK:

Streamflows this summer are expected to be near normal based on current snow conditions in the basin. Snowpack accumulation range from a high of over 30% above normal in the Gros Ventre and Hoback River drainages to a low of 6% below normal in the Pacific Creek drainage. Current reservoir storage is below normal.

For more information contact your local Soil Conservation Service office.

# SNAKE RIVER BASIN

## STREAMFLOW FORECASTS

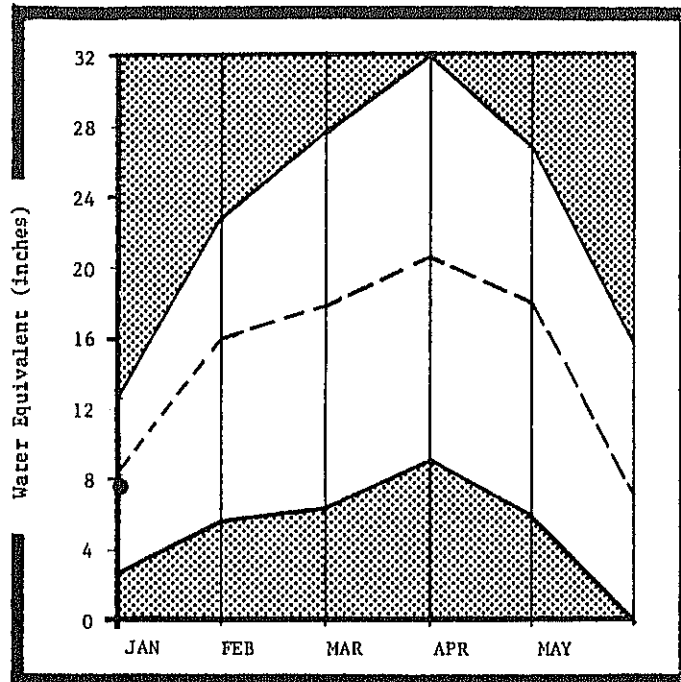
FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
SHAKE RIVER near Moran *	APR-SEP	880	900	102	122	82				
SHAKE RIVER above Palisades *	APR-SEP	2730	2855	104	123	85				
SHAKE RIVER at Heise, ID *	APR-SEP	4066	4390	107	139	76				
PACIFIC CREEK at Moran	APR-SEP	174	175	100	126	74				
GREYS RIVER above Palisades	APR-SEP	393	440	111	137	87				
SALT RIVER near Etna	APR-SEP	394	450	114	143	86				
PALISADES RESERVOIR Inflow *	APR-SEP	3793	4100	108	140	78				
SHIFT CREEK near Afton	MAY-SEP	46	47	102	128	78				

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVE.D	THIS YEAR AS %	
		THIS YEAR	LAST YEAR	AVE.			LAST YR.	AVE.
GRASSY LAKE	15.1	12.9	0.0	10.1	SNAKE above JACKSON LAKE	8	73	111
JACKSON LAKE	624.4	281.9	145.4	200.0	PACIFIC CREEK	2	78	94
PALISADES	1200.0	1063.0	919.6	1099.0	GROS VENTRE RIVER	2	140	133
					HOBACK RIVER	3	119	131
					GREYS RIVER	1	109	106
					SALT RIVER	2	88	111
					SNAKE above PALISADES	18	86	111

\*Corrected for upstream diversions or changes in reservoir storage.  
 Average is for 1961-80 period.

# UPPER YELLOWSTONE AND MADISON RIVER BASINS

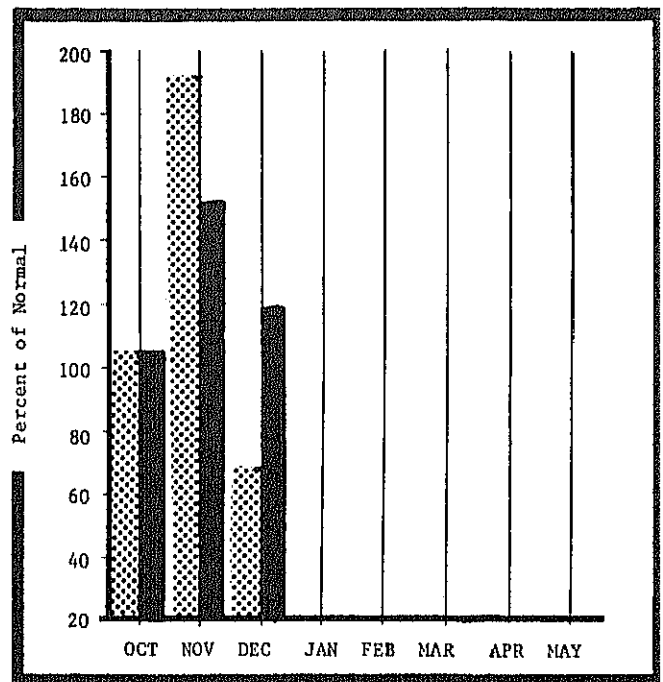
## MOUNTAIN SNOWPACK\*



\*Based on selected stations

Maximum  Average   
Minimum  Current 

## PRECIPITATION\*



\*Based on selected stations

Monthly precipitation  Year to date precipitation 

## WATER SUPPLY OUTLOOK:

With the snowpack currently near normal and slightly below normal the streamflow predictions are similar. Water users in these basins would probably feel comfortable if slightly above average snow accumulation would occur during the rest of the season.

For more information contact your local Soil Conservation Service office.

# UPPER YELLOWSTONE and MADISON RIVER BASINS

## STREAMFLOW FORECASTS

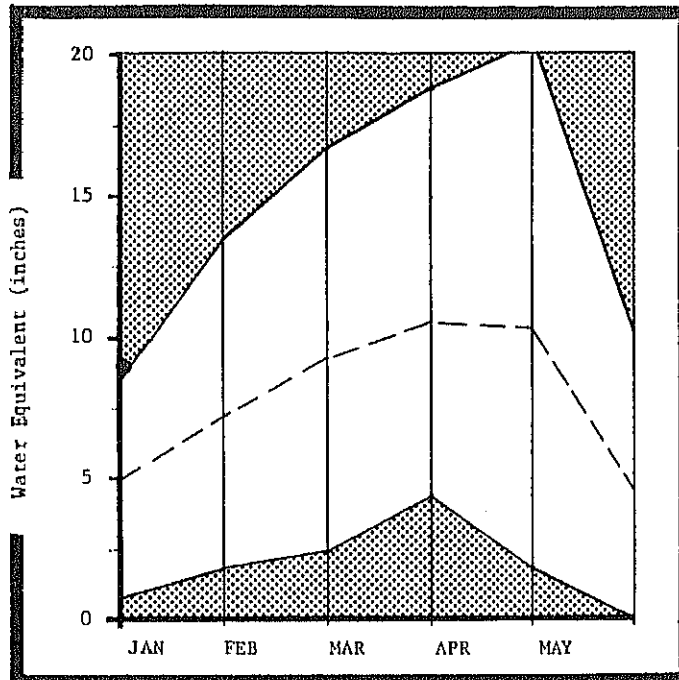
FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
YELLOWSTONE RIVER at Lake Outlet	APR-SEP	826	800	96	115	78				
YELLOWSTONE RIVER at Corwin Spgs.	APR-SEP	2027	1910	94	114	74				
YELLOWSTONE RIVER near Livingston	APR-SEP	2379	2190	92	112	72				
MADISON RIVER near Grayling, MT *	APR-SEP	496	545	109	129	89				

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	USEABLE THIS YEAR	USEABLE LAST YEAR	USEABLE STORAGE AVE.	WATERSHED	NO. COURSES AVE.D	THIS YEAR LAST YR.	AS % OF AVERAGE
ENNIS LAKE	41.0	32.6	29.9	35.3	UPPER MADISON RIVER	12	82	108
HEBGEN LAKE	378.0	311.3	277.3	232.8	CLARKS FORK	14	100	92
					UPPER YELLOWSTONE RIVER	13	82	94



\*Corrected for upstream diversions or changes in reservoir storage.  
Average is for 1961-80 period.



# WIND RIVER BASIN

## MOUNTAIN SNOWPACK\*

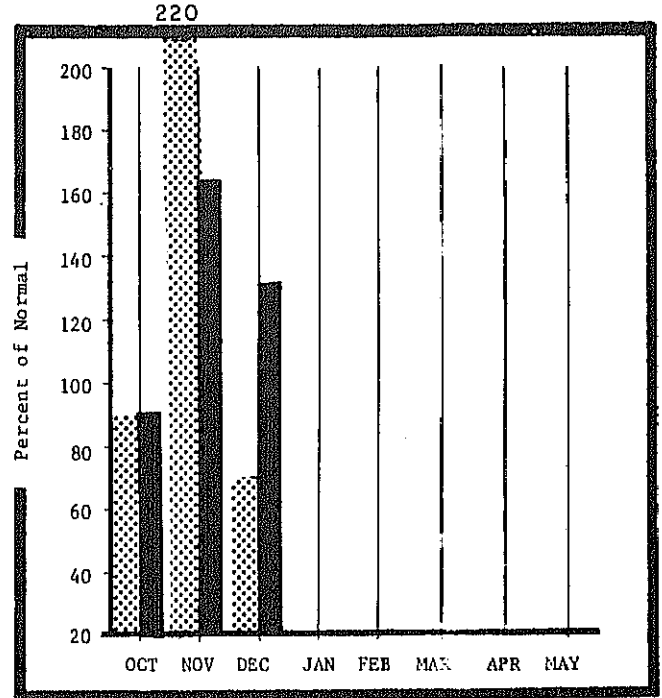


\*Based on selected stations

Maximum   
Minimum 

Average   
Current 

## PRECIPITATION\*



\*Based on selected stations

Monthly precipitation  Year to date precipitation 

## WATER SUPPLY OUTLOOK:

Excellent streamflows are forecast for this basin this summer. Flow of 20% above normal can be expected in the Wind River near Riverton if current snowpack accumulation trends continue. Snowpack in the Popo Agie drainage is currently 104% above normal.

For more information contact your local Soil Conservation Service office.

# WIND RIVER BASIN

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	HIST PROBABLE (1000AF)	HIST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
WIND RIVER near Dubois	APR-SEP	106	110	103	132	75				
WIND RIVER at Riverton *	APR-SEP	678	720	106	136	76				
WIND RIVER below Boysen *	APR-SEP	1163	1370	117	147	87				
BULL LAKE CREEK near Lenore *	APR-SEP	188	200	104	130	79				
LITTLE FORD AGIE RIVER near Lander	APR-SEP	53	58	109	141	73				

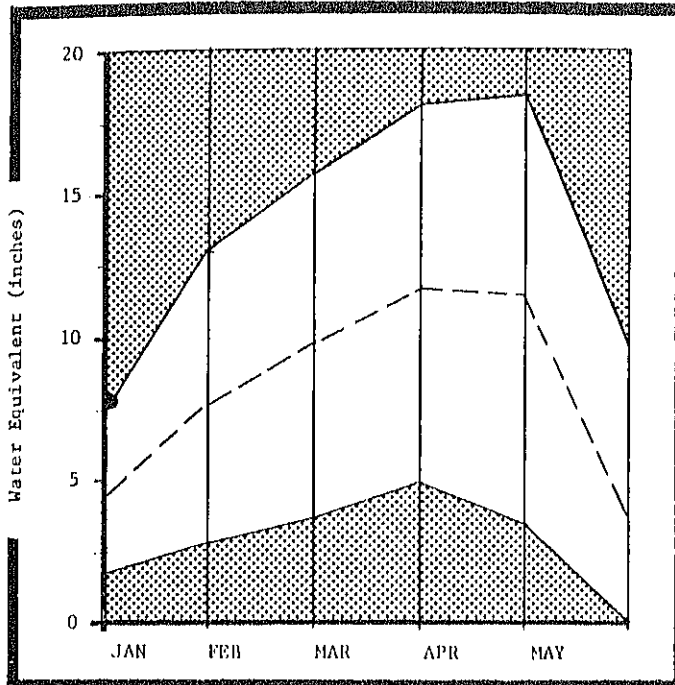
RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE THIS YEAR	LAST YEAR	AVE.	WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % LAST YR.	AVER
BULL LAKE	151.1	90.4	89.7	90.0	UPPER WIND RIVER	6	114	103
BOYSEN	549.9	389.4	359.7	391.0	WIND above RIVERTON	13	141	121
PILOT BUTTE	31.6	23.7	25.0	22.6	POFO AGIE	1	200	204
					WIND above BOYSEN	14	145	126

\*Corrected for upstream diversions or changes in reservoir storage.  
Average is for 1961-80 period.







# BIGHORN RIVER BASIN

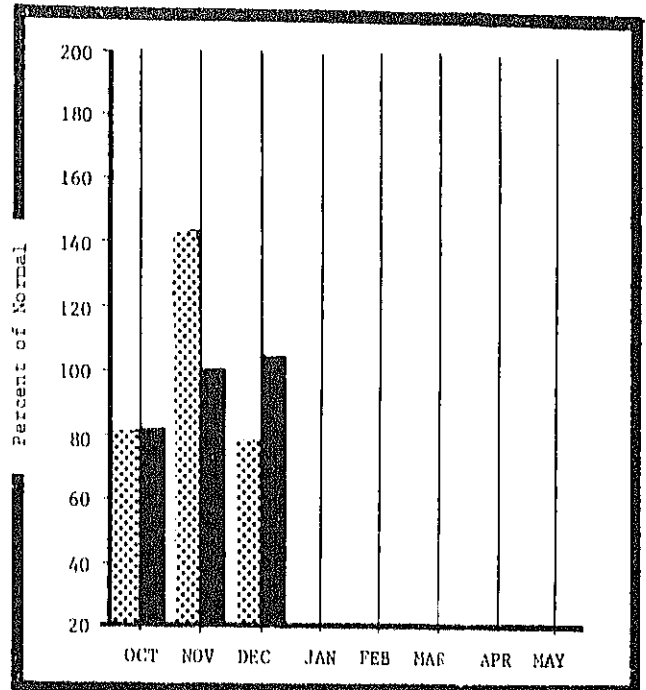
## MOUNTAIN SNOWPACK\*



\*Based on selected stations

Maximum  Average   
Minimum  Current 

## PRECIPITATION\*



\*Based on selected stations

Monthly precipitation  Year to date precipitation 

## WATER SUPPLY OUTLOOK:

Although snowpack accumulation in this basin is normal to as much as 25% above normal, tributary streamflow forecasts are discouraging. Both the Clarks Fork and Shoshone Rivers are predicted to be nearly 11% below normal.

For more information contact your local Soil Conservation Service office.

# BIGHORN RIVER BASIN

## STREAMFLOW FORECASTS

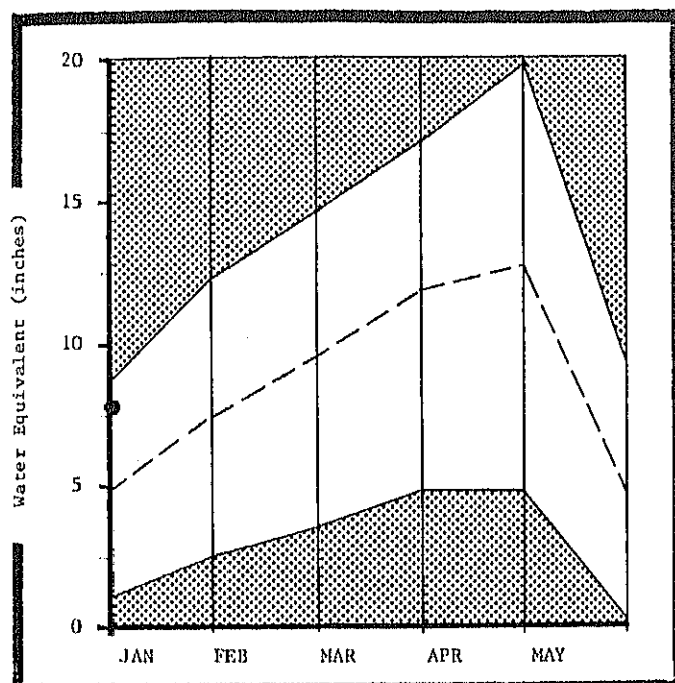
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WIND RIVER below Boysen *	APR-SEP	1163	1370	117	147	87				
SHELL CREEK near Shell	APR-SEP	78	75	96	134	70				
GREYBULL RIVER at Meeteetse	APR-SEP	215	205	95	123	67				
SHOSHONE RIVER blw Buffalo Bill *	APR-SEP	845	755	89	113	65				
CLARKS FORK near Belfry	APR-SEP	628	560	89	123	55				
SOUTH FORK SHOSHONE near Valley	APR-SEP	278	250	89	118	62				
NOWOOD RIVER near Tensleep	MAR-SEP	71	67	95	122	67				

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE THIS YEAR	LAST YEAR	** AVE.	WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	% OF AVERAGE
BOYSEN	549.9	389.4	359.7	391.0	SHOSHONE RIVER	7	96	101
BUFFALO BILL	373.1	268.4	224.0	203.0	NOWOOD RIVER	2	175	125
BIGHORN LAKE	1356.0	954.6	768.8	686.0	GREYBULL RIVER	2	111	122
					SHELL CREEK	6	135	119
					BIGHORN (Boysen-Bighorn)	23	175	115





\*Corrected for upstream diversions or changes in reservoir storage.  
Average is for 1961-80 period.

# POWDER AND TONGUE RIVER BASINS

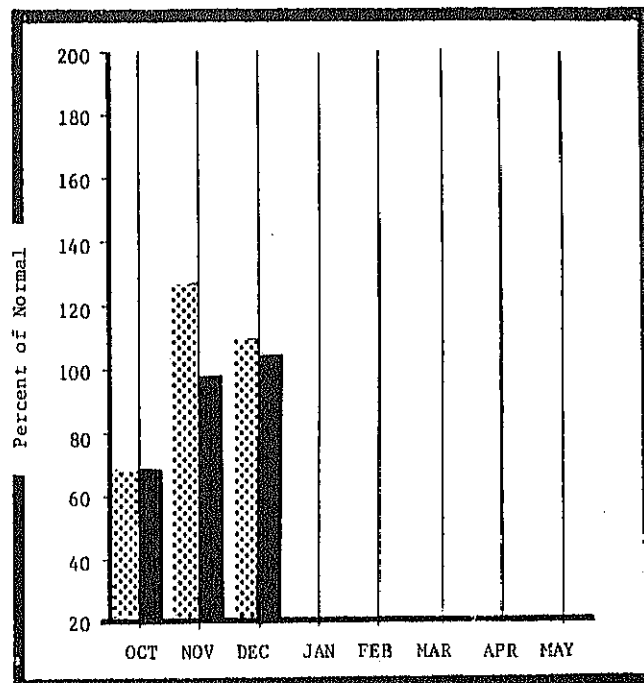
## MOUNTAIN SNOWPACK\*



\*Based on selected stations

Maximum  Average   
Minimum  Current 

## PRECIPITATION\*



\*Based on selected stations

Monthly precipitation  Year to date precipitation 

## WATER SUPPLY OUTLOOK:

Streamflow forecasts indicate expected spring and summer flows to be near normal. Snowpack buildup in all the drainages on the east face of the Bighorns is above average with the exception of the Clear Creek drainage above Buffalo. This drainage is 6% below average. The Upper Tongue River drainages are presently 28% above normal.

For more information contact your local Soil Conservation Service office.

# POWDER and TONGUE RIVER BASINS

## STREAMFLOW FORECASTS

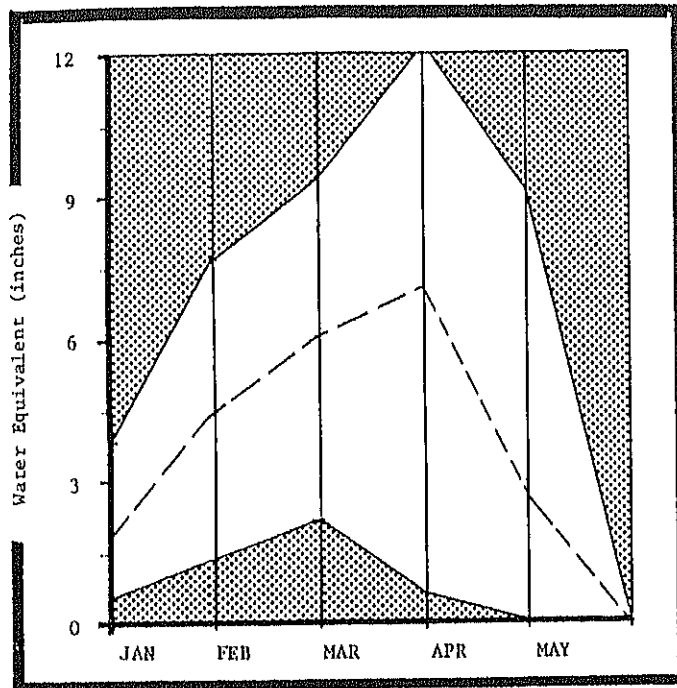
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TONGUE RIVER near Dayton *	APR-SEP	123	130	105	138	73				
MIDDLE FORK POWDER near Barnum	APR-SEP	21	22	104	138	69				
NORTH FORK POWDER near Hazelton	APR-SEP	10	11	103	141	66				
CLEAR CREEK near Buffalo	APR-SEP	40	40	100	137	62				
ROCK CREEK near Buffalo	APR-SEP	25	25	100	137	59				
PINEY CREEK at Kearny	APR-SEP	54	55	100	138	62				
LITTLE BIGHORN at Hardin, MT	APR-SEP	182	171	93	94	94				

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE THIS YEAR	LAST YEAR	AVE.	WATERSHED	NO. COURSES AVE.D	THIS YEAR LAST YR.	AVE.
TONGUE RIVER	68.0	18.5	13.5	20.4	UPPER TONGUE RIVER	8	144	144
					GOOSE CREEK	3	134	134
					CLEAR CREEK	1	214	214
					CRAZY WOMAN CREEK	1	207	207
					POWDER RIVER	17	149	149

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Average is for 1961-80 period.

# BELLE FOURCHE AND CHEYENNE RIVER BASINS

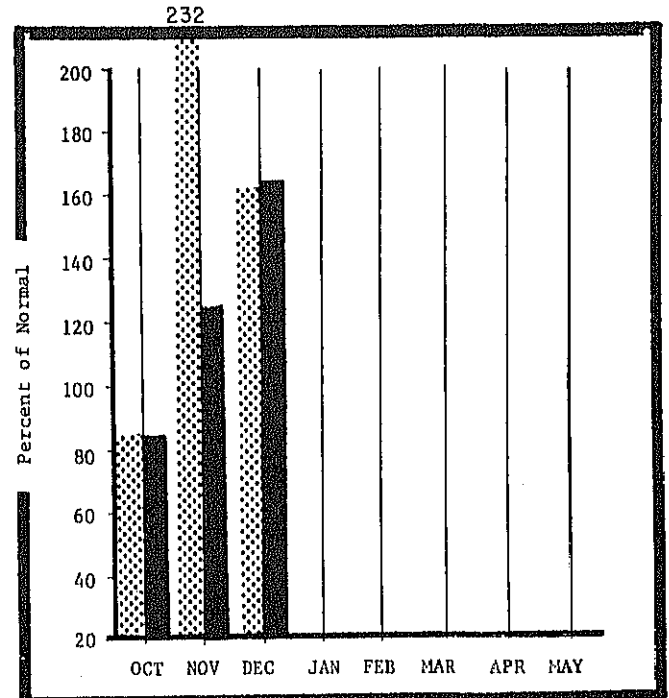
## MOUNTAIN SNOWPACK\*



\*Based on selected stations

Maximum Average Minimum Current

## PRECIPITATION\*



\*Based on selected stations

Monthly precipitation Year to date precipitation

## WATER SUPPLY OUTLOOK:

No streamflow forecasts were made for these basins. Fall precipitation (Oct - Dec) is 75% above normal indicating an early season snowpack buildup.

For more information contact your local Soil Conservation Service office.

# BELLE FOURCHE and CHEYENNE RIVER BASINS

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	FEAR FLOW (CFS)	FEAR DATE	LOW FLOW (CFS)	LOW DATE
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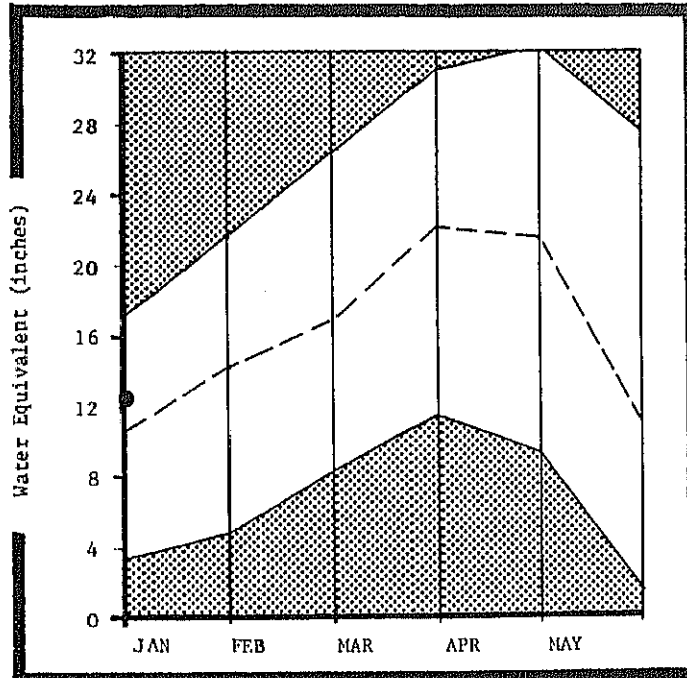
-No forecasts issued in this area-

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	1 YEAR	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.	WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR. AVERAGE
ANGOSTURA	86.2		50.4	65.9	---	BELLE FOURCHE	0	0
BELLE FOURCHE	195.2		115.0	49.0	101.0			
DEERFIELD	15.1		14.5	13.9	---			
KEYHOLE	190.4		71.4	47.0	116.0			
PACTOLA	55.0		34.1	43.1	---			
SHADEHILL	81.5		53.0	63.4	---			

\*Corrected for upstream diversions or changes in reservoir storage.  
Average is for 1961-80 period.

# UPPER NORTH PLATTE AND LITTLE SNAKE RIVER BASINS

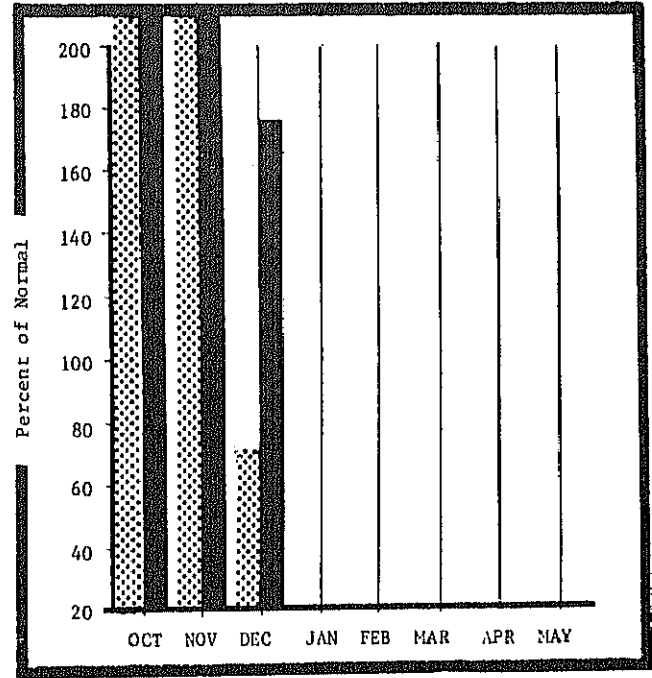
## MOUNTAIN SNOWPACK\*



\*Based on selected stations

Maximum  Average   
 Minimum  Current 

## PRECIPITATION\*



\*Based on selected stations

Monthly precipitation  Year to date precipitation 

## WATER SUPPLY OUTLOOK:

Again, early season above normal snowpack buildup for the fourth season in a row could mean above normal streamflows can be expected in these drainages. Snowpack in the Brush Creek drainage is 116% above average, while in the Savary Creek drainage it is 46% above average. Streamflow forecasts indicate flow to be about 14% above normal.

For more information contact your local Soil Conservation Service office.

# UPPER NORTH PLATTE and LITTLE SNAKE RIVER BASINS

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
NORTH PLATTE RIVER near Northgate	APR-SEP	262	305	116	144	88				
NORTH PLATTE RIVER near Sinclair	APR-SEP	710	815	114	145	72				
ENCAMPMENT RIVER near Encampment	APR-SEP	156	178	114	142	88				
ROCK CREEK near Arlington	APR-SEP	57	65	119	142	85				
LITTLE SNAKE RIVER near Dixon *	APR-SEP	320	416	130	144	95				
LITTLE SNAKE near Slater, CO *	APR-SEP	158	205	129	164	98				

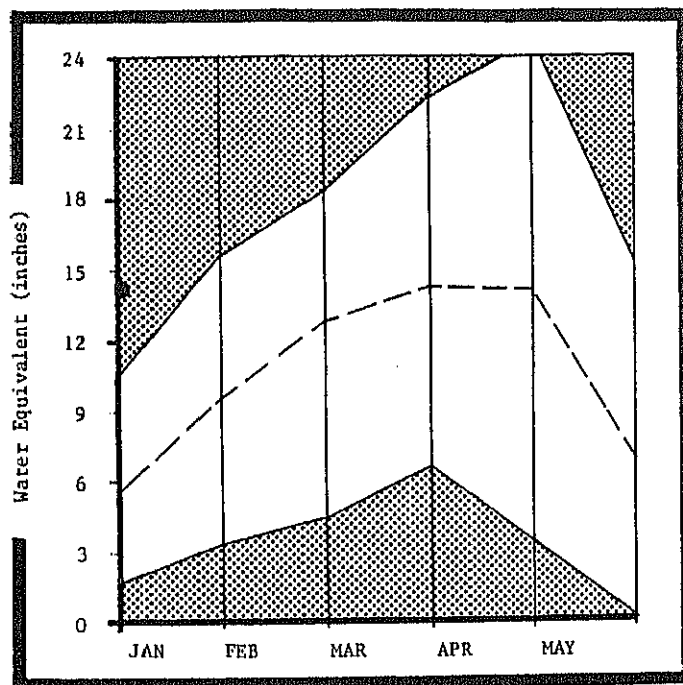
RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.	WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AS % OF AVERAGE
SEMINOE	1017.3	867.0	698.5	536.0	UPPER NORTH PLATTE	7	129	153
					ENCAMPMENT RIVER	2	119	126
					BRUSH CREEK	1	160	216
					MEDICINE BOW & ROCK CREEK	0	0	0
					N. PLATTE above SEMINOE	8	127	155
					UPPER LITTLE SNAKE RIVER	0	0	0
					SAVERY CREEK	2	127	146

\*Corrected for upstream diversions or changes in reservoir storage.  
Average is for 1961-80 period.







# LOWER NORTH PLATTE, SWEETWATER, AND LARAMIE RIVER BASINS

MOUNTAIN SNOWPACK\*

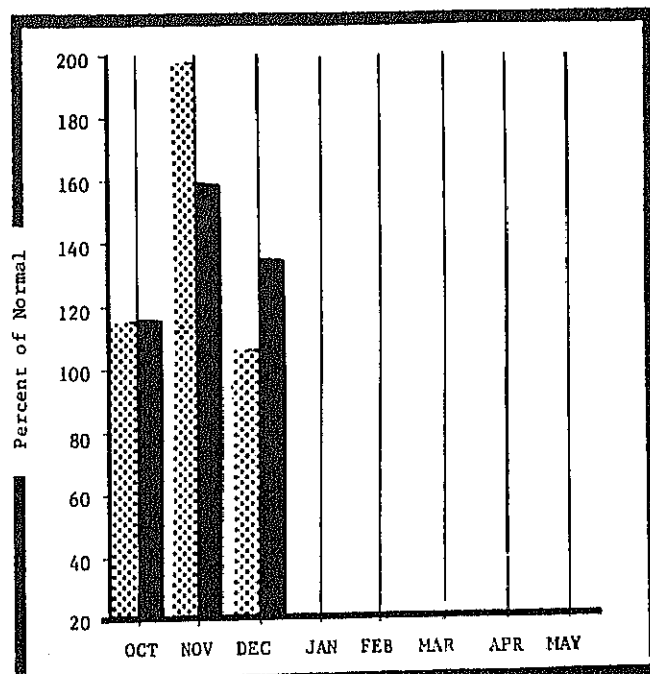


\*Based on selected stations

Maximum   
Minimum 

Average   
Current 

PRECIPITATION\*



\*Based on selected stations

Monthly precipitation  Year to date precipitation 

## WATER SUPPLY OUTLOOK:

Even though early season snowpack buildup is much above normal, streamflow forecasts show expected flows to be near normal. Tributary flows between Pathfinder Reservoir and Glendo Reservoir are expected to be 6% below normal. Flows in the Laramie River is expected to be slightly above normal. Snowpack in the Little Laramie drainage is 115% above normal. Other snowpacks in these drainages run between 47% and 102% above normal. Reservoir storage again this year is above normal for January 1st.

For more information contact your local Soil Conservation Service office.

# LOWER NORTH PLATTE, SWEETWATER, and LARAMIE RIVER BASINS

## STREAMFLOW FORECASTS

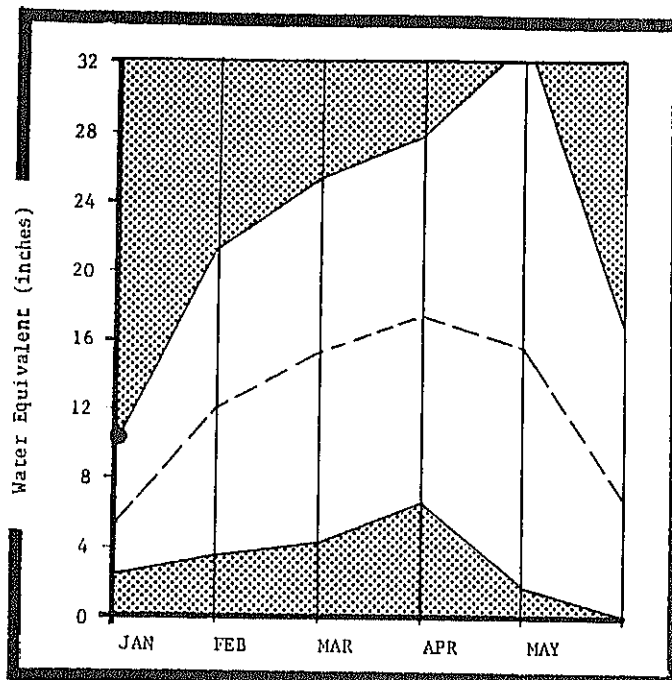
FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
NORTH PLATTE RIVER near Sinclair	APR-SEP	710	815	114	143	72				
SWEETWATER RIVER near Alcova	APR-SEP	73	88	119	119	119				
DEER CREEK at Glenrock	APR-SEP	51	49	95	162	29				
LAPRELE CREEK above Reservoir	APR-SEP	33	32	94	160	29				
LARAMIE RIVER near Woods *	APR-SEP	132	145	109	141	78				
LITTLE LARAMIE RIVER near Filmore	APR-SEP	65	75	115	147	82				

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS		
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE THIS YEAR	LAST YEAR	AVE.	WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR. AVERAGE
ALCOVA	104.4	---	---	---	SWEETWATER	2	183 147
GLENDO	783.7	74.3	214.4	---	DEER & LAPRELE CREEKS	1	122 197
GUERNSEY	45.2	0.0	6.1	5.2	N. PLATTE above LARAMIE	6	198 168
PATHFINDER	1015.5	849.9	672.7	488.0	LITTLE LARAMIE RIVER	1	200 215
SEHINOE	1017.3	847.8	698.5	536.0	UPPER LARAMIE RIVER	2	144 180
WHEATLAND #2	98.9	72.0	64.0	---	LARAMIE RIVER above MOUTH	3	188 202
NORTH PLATTE PROJ	1016.1	---	544.2	---	NORTH PLATTE in WYOMING	20	139 162
KENDRICK PROJECT	1201.6	---	1112.8	---			
GLENDO PROJECT USERS	454.3	---	---	---			

\*Corrected for upstream diversions or changes in reservoir storage.  
Average is for 1961-80 period.

# UPPER GREEN RIVER BASIN

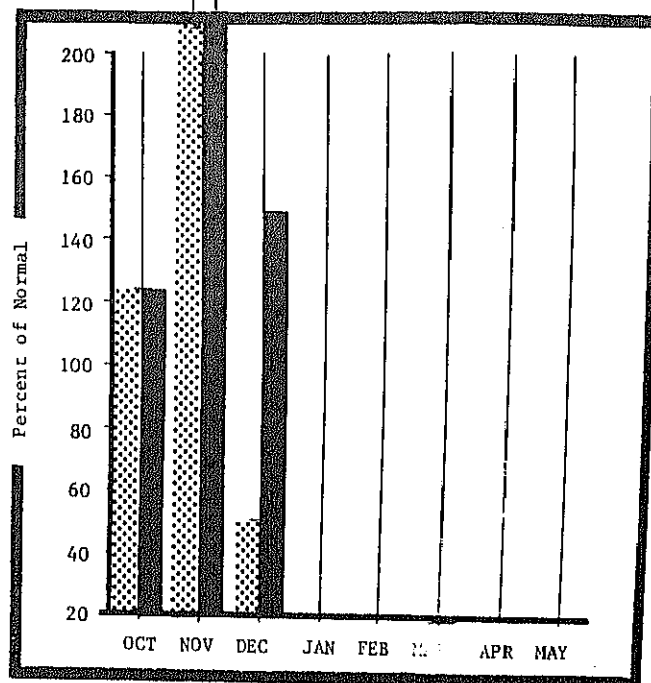
## MOUNTAIN SNOWPACK\*



\*Based on selected stations

Maximum Average Minimum Current

## PRECIPITATION\*



\*Based on selected stations

Monthly precipitation Year to date precipitation

## WATER SUPPLY OUTLOOK:

Above normal streamflow is forecast for the Upper Green River Basin. Snowpack buildup is between 19% and 52% above normal. Big Sandy River drainage can expect flows as much as 18% above average.

For more information contact your local Soil Conservation Service office.

# UPPER GREEN RIVER BASIN

## STREAMFLOW FORECASTS

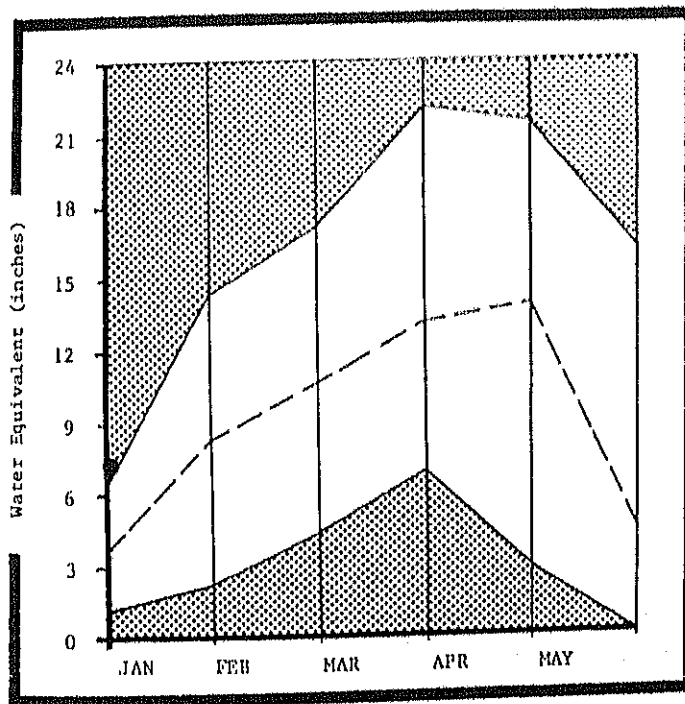
FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	HIST PROBABLE (1000AF)	HIST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
GREEN RIVER near Warren Bridge	APR-SEP	326	365	111	131	92				
FONTENELLE RESERVOIR Inflow	APR-JUL	869	1100	126	126	90				
LaBARGE CREEK at LaBarge Meadows	APR-SEP	8	10	112	134	89				
BIG SANDY RIVER near Big Sandy	APR-SEP	61	72	118	145	90	1000			

RESERVOIR STORAGE (1000AF)				WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	THIS YEAR	** USEABLE STORAGE ** LAST YEAR AVE.	WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	% OF AVERAGE
BIG SANDY	38.3	---	18.0	GREEN above WARREN BRIDGE	3	154	149
EDEN	11.8	---	---	UPPER GREEN (West Side)	5	117	119
FLAMING GORGE	3749.0	3323.0	3117.0	NEWFORK LAKE	1	150	142
FONTENELLE	344.8	35.4	172.3	BIG SANDY/EDEN VALLEY	1	143	152
				GREEN above FONTENELLE	7	144	137


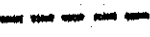

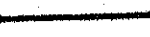
\*Corrected for upstream diversions or changes in reservoir storage.  
Average is for 1961-80 period.

# LOWER GREEN RIVER BASIN

## MOUNTAIN SNOWPACK\*

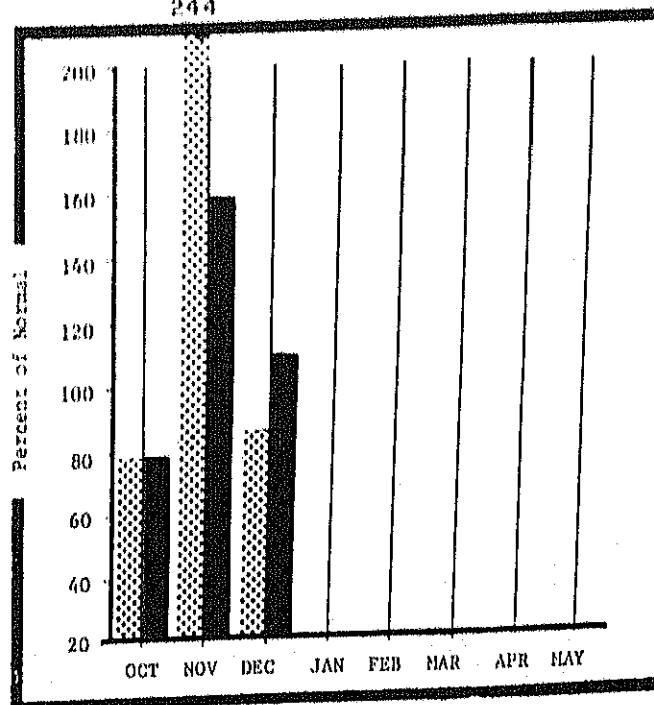


\*Based on selected stations



Maximum  Average   
Minimum  Current 

## PRECIPITATION\*

244



\*Based on selected stations

Monthly precipitation  Year to date precipitation 

## WATER SUPPLY OUTLOOK:

Snowpack accumulation is above normal, particularly along the southern border of Wyoming in the Uintah Mountains. Henrys Fork drainage is 79% above average. Streamflow forecasts reflect the snowpack accumulation in that above normal flows can be expected.

For more information contact your local Soil Conservation Service office.

# LOWER GREEN RIVER BASIN

## STREAMFLOW FORECASTS

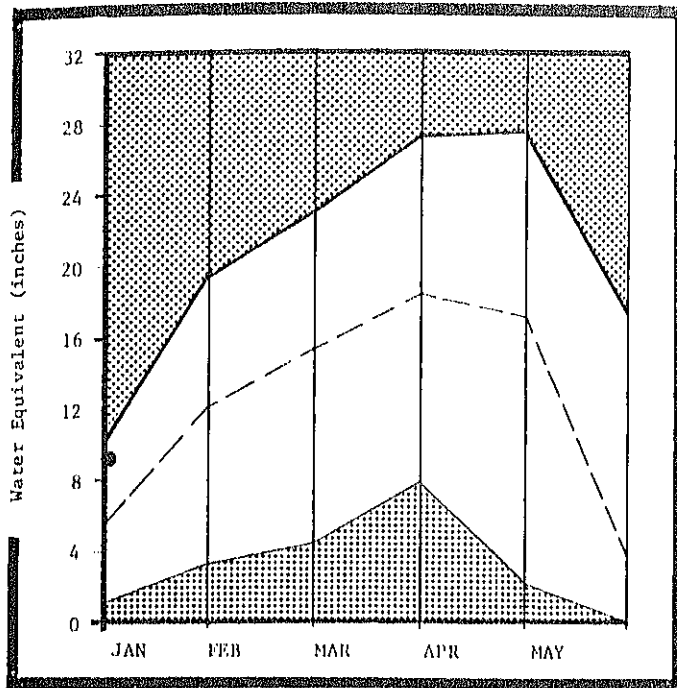
FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
FONTENELLE RESERVOIR Inflow	APR-JUL	869	1100	124	156	90				
HAMS FORK near Frontier	APR-SEP	71	85	119	151	88				
GREEN RIVER near Green River, WY *	APR-SEP	1079	1350	125	150	100				
BLACKS FORK near Milburne, UT	APR-JUL	89	113	128	200	51				
HENRYS FORK near Minila, UT	APR-SEP	48	76	158	204	112				
FLAMING GORGE Inflow *	APR-JUL	1248	1560	125	160	94				

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	USEABLE THIS YEAR	USEABLE LAST YEAR	USEABLE AVE.	WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR. AVERAGE	
FONTENELLE	344.8	35.4	172.3	---	HAMS FORK RIVER	3	109	118
FLAMING GORGE	3749.0	3373.0	3117.0	---	BLACKS FORK	4	102	135
VIVA HAUGHTON RES	42.4	35.8	---	---	HENRYS FORK	1	113	179
					GREEN above FLAMING GORGE	10	130	130




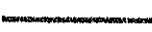
\*Corrected for upstream diversions or changes in reservoir storage.  
Average is for 1961-80 period.

# UPPER BEAR RIVER BASIN

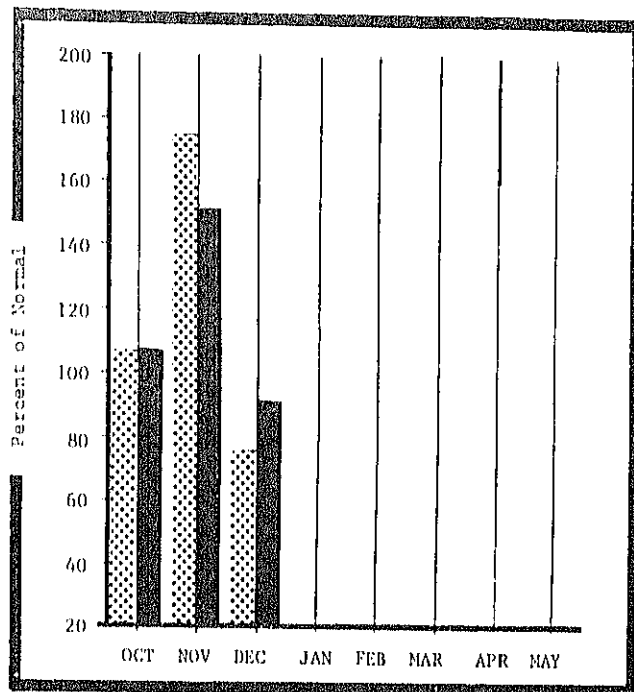
## MOUNTAIN SNOWPACK\*



\*Based on selected stations

Maximum  Average   
Minimum  Current 

## PRECIPITATION\*



\*Based on selected stations

Monthly precipitation  Year to date precipitation 

## WATER SUPPLY OUTLOOK:

Streamflow forecasts indicate that water users can expect near normal flows this spring and summer. Snowpack accumulation is above normal by as much as 36%.

For more information contact your local Soil Conservation Service office.

# UPPER BEAR RIVER BASIN

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
SMITHS FORK near Border	APR-SEP	119	122	102	130	74				
THOMAS FORK near State line	APR-SEP	35	36	102	131	74				
BEAR RIVER at Utah-Wyoming line	APR-JUL	110	127	115	145	82				
BEAR RIVER near Woodruff, UT	APR-JUL	139	153	110	144	53				
BEAR RIVER near Randolph, UT	APR-JUL	110	143	130	177	62				

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	USEABLE THIS YEAR	USEABLE LAST YEAR	USEABLE STORAGE AVE.	WATERSHED	NO. COURSES AVE. D	THIS YEAR AS % OF LAST YR.	% OF AVERAGE
WOODRUFF NARROWS		NO REPORT			UPPER BEAR RIVER	3	95	136
					SMITHS & THOMAS FORK'S	3	106	125
					BEAR RIVER abv IDAHO line	9	105	120

\*Corrected for upstream diversions or changes in reservoir storage.  
Average is for 1961-80 period.



THE FOLLOWING ORGANIZATIONS COOPERATE  
WITH THE SOIL CONSERVATION SERVICE  
IN SNOW SURVEY WORK

State

Conservation Districts of Wyoming  
State Engineer of Wyoming  
Department of Water Resources of Nebraska  
Irrigation Districts of Wyoming  
University of Wyoming  
    Department of Atmospheric Resources  
    Department of Agricultural Engineering

Federal

U.S. Department of Agriculture  
    Soil Conservation Service  
    Forest Service  
  
U.S. Department of Commerce  
    NOAA, National Weather Service  
  
U.S. Department of Interior  
    Bureau of Reclamation  
    Geological Survey  
    National Park Service  
    Bureau of Indian Affairs  
    Bureau of Land Management

Private

Utah Power and Light Company  
Eden Valley Irrigation District

Other organizations and individuals furnish information for the  
snow survey reports. Their cooperation is gratefully acknowledged.